

**OKIDATA<sup>®</sup>**

# **OKIPAGE 20 & 20DX User's Guide**



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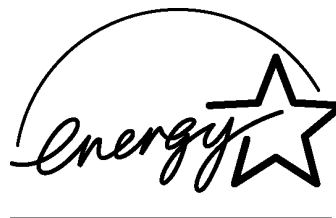
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## ENERGY STAR



As an ENERGY STAR® Partner, OKIDATA has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

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# Important Safety Instructions

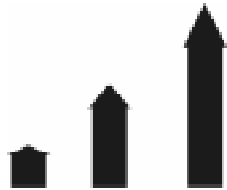
Your OKIDATA printer has been carefully designed to give you years of safe, reliable performance. As with all electrical equipment, however, there are a few basic precautions you should take to avoid hurting yourself or damaging the printer:

- Read the setup and operating instructions in this handbook carefully. Be sure to save it for future reference.
- Read and follow all warning and instruction labels on the printer itself.
- Unplug the printer before you clean it. Use only a damp cloth; do not use liquid or aerosol cleaners.
- Place your printer on a firm, solid surface. If you put it on something unsteady, it may fall and be damaged; if you place it on a soft surface, such as a rug, sofa, or cushioned surface, the vents may be blocked, causing the printer to overheat.
- To protect your printer from overheating, make sure all openings on the printer are not blocked. Don't put the printer on or near a heat source, such as a radiator or heat register. If you put it in any kind of enclosure, make sure it is well ventilated.
- Do not use your printer near water, or spill liquid of any kind into it. Be certain that your power source matches the rating listed on the back of the printer. If you're not sure, check with your dealer or with your local power company.
- Your printer has a grounded, 3-prong plug as a safety feature, and it will only fit into a grounded outlet. If you can't plug it in, chances are you have an older, non-grounded outlet; contact an electrician to have the outlet replaced. Do not use an adapter to defeat the grounding.
- The printer must be installed near a power outlet which remains easily accessible.
- To avoid damaging the power cord, don't put anything on it or place it where it will be walked on. If the cord becomes damaged or frayed, replace it immediately.
- If you're using an extension cord or power strip with the printer, make sure that the total of the amperes required by all the equipment on the extension is less than the extension's rating. The total ratings of all equipment plugged into the outlet should not exceed 15 amperes.
- Do not poke anything into the ventilation slots on the printer; you could get an electrical shock or cause hazardous electrical arcing.
- Aside from the routine maintenance described in this handbook, don't try to service the printer yourself; opening the cover may expose you to shocks or other hazards. Don't make any adjustments other than those outlined in the handbook—you may cause damage requiring extensive repair work. Appendix A, Support, Service, and Warranty Information, explains how to get your printer serviced by qualified OKIDATA technicians.
- If anything happens that indicates that your printer is not working properly or has been damaged, unplug it immediately and follow the procedures in Appendix A for having your printer serviced. These are some of the things to look for:
  - The power cord or plug is frayed or damaged.
  - Liquid has been spilled into the printer, or it has been exposed to water.
  - The printer has been dropped, or the cabinet is damaged.
  - The printer doesn't function normally when you're following the operating instructions.

# Warranty Enhancement Programs

• Available in the U.S. and Canada only

## OKI Extend™



This program offers you the opportunity to purchase an extension of the standard warranty for your Okidata printer. You can add 1 or 2 years to the standard warranty.

## OKI On-Site™



If you experience a malfunction of your Okidata printer and the problem can not be resolved over the phone, this program offers you repair of your printer right at your place of business, by our national service provider.

## For more information . . .

For pricing and more detailed information on these programs:

- call 1-800-OKIDATA (1-800-654-3282)
- or
- visit our Web site: <http://www.okidata.com>

# FCC/IC/CE Statements

## Federal Communications Commission Radio Frequency Interference Statement for 120-Volt Models

**WARNING:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and the receiver.
  - Plug the unit into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/television technician for help.
- ✓ *It is the responsibility of the user to obtain the required shielded cable in order to ensure compliance of this equipment with FCC regulations.*

Changes or modifications not expressly approved by OKIDATA may void your authority to operate this device.

## Industry Canada Radio Interference Statement for 120-Volt Models

This OKIDATA apparatus complies with the Class B limits for radio interference as specified in the Industry Canada Radio Interference Regulations.

## Federal Communications Commission Radio Frequency Interference Statement for 230/240-Volt Models

**WARNING:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

✓ *It is the responsibility of the user to obtain the required shielded cable in order to ensure compliance of this equipment with FCC regulations.*

Changes or modifications not expressly approved by OKIDATA may void your authority to operate this device.

## Industry Canada Radio Interference Statement for 230/240-Volt Models

This OKIDATA apparatus complies with the Class A limits for radio interference as specified in the Industry Canada Radio Interference Regulations.

## European Union Council of the European Communities Statements of Electromagnetic Conformance for 230/240-Volt Models

This product complies with the requirements of the Council Directive 89/336/EEC on the approximation of the laws of the member states relating to electromagnetic compatibility.

This product is in conformity with Directive 73/23/EEC on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.



# Chapter 1: Setting Up

This chapter explains how to unpack and install your printer.

## Select a Suitable Location

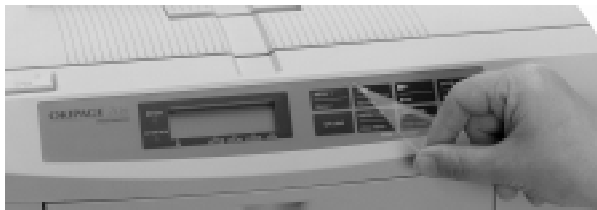
Before unpacking your printer, select a suitable location for it which meets the following criteria:

- A firm, level surface, such as a table or desktop
- Clearance to open the cover, the paper tray, and the rear paper exit extender
- Air circulation around the printer to prevent overheating (recommended minimum of 4" in all directions)
- A nearby power source
- Room temperature of 50° to 90°F (10° to 32°C)
- Relative humidity of 20-80%
- No direct sunlight

## Unpack

### Your printer

1. Unpack the printer and place it on the surface you've selected.
2. Remove the printer from the plastic bag.
3. Lift up the corner of the protective film and peel it off the control panel.



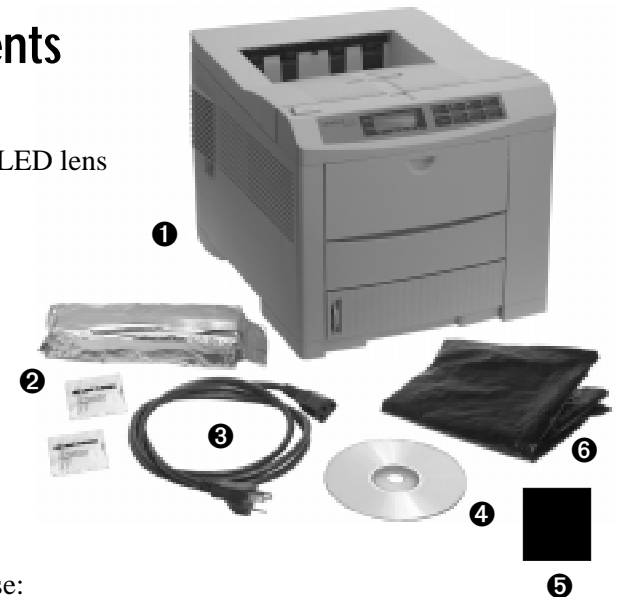
### The accessories

As you unpack the accessories, please save the packing material in the event you need to repack the printer for shipping.

**Important!** Be sure to store the black light-shield bag near the printer to protect the image drum in case you need to take it out of the printer for more than a minute or so. This bag is also used to store the image drum in case you need to ship the printer.

### Check the contents

- ❶ OKIPAGE 20 Printer
- ❷ Toner Cartridge with LED lens cleaners
- ❸ Power Cord
- ❹ Software Support CD
- ❺ Software Support Diskette
- ❻ Light-shield bag

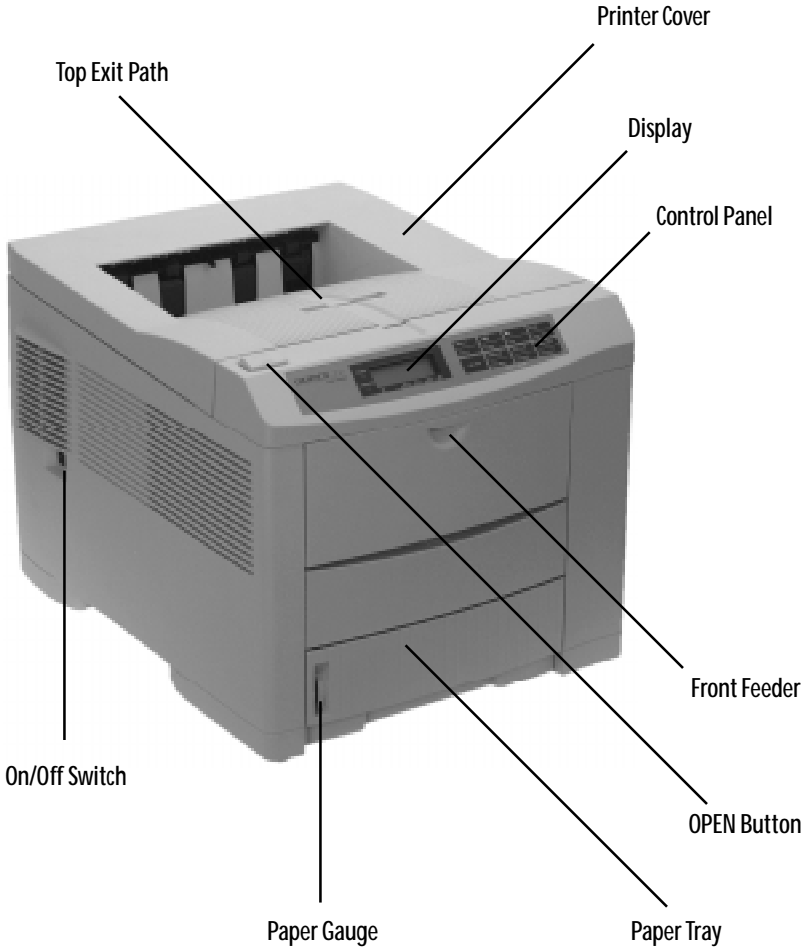


If you are missing anything, contact your dealer.

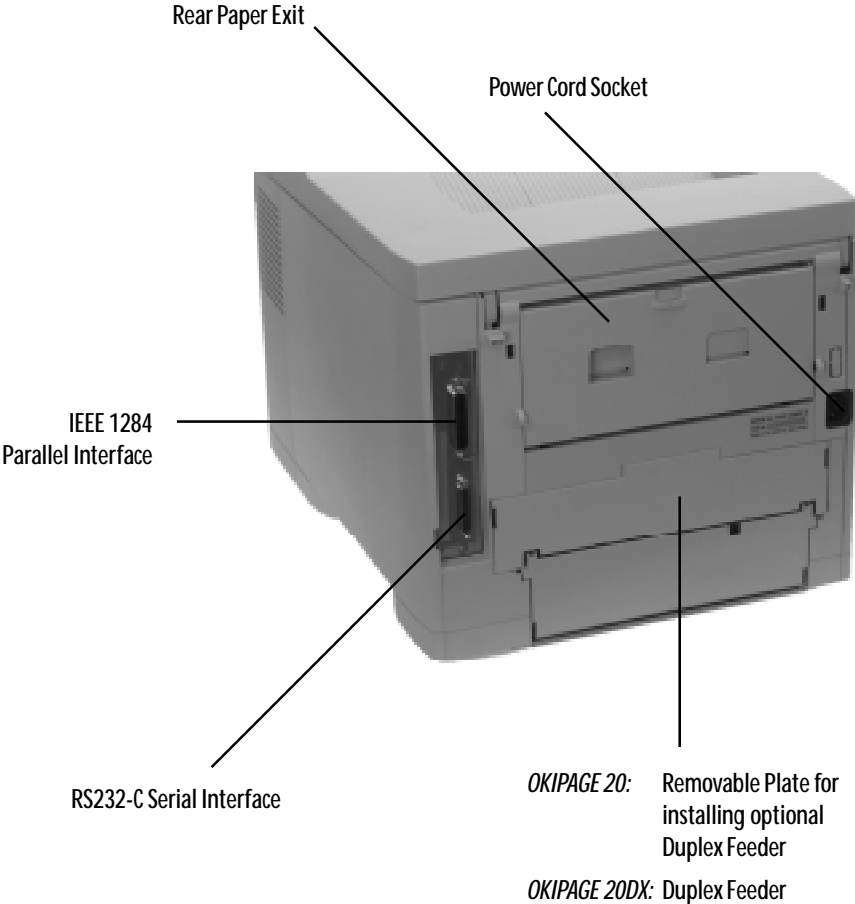
You will need to purchase:

- Paper (see page 5)
- Interface cable: either bi-directional IEEE-1284 parallel cable (see page 9) or RS232-C serial cable (see page 11)

# Getting to Know Your Printer



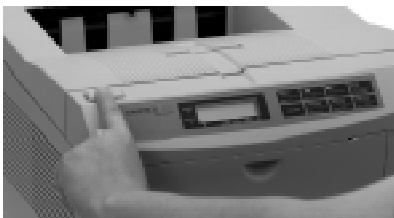
Front View



Rear View

## Prepare the Image Drum

1. Press the OPEN button.

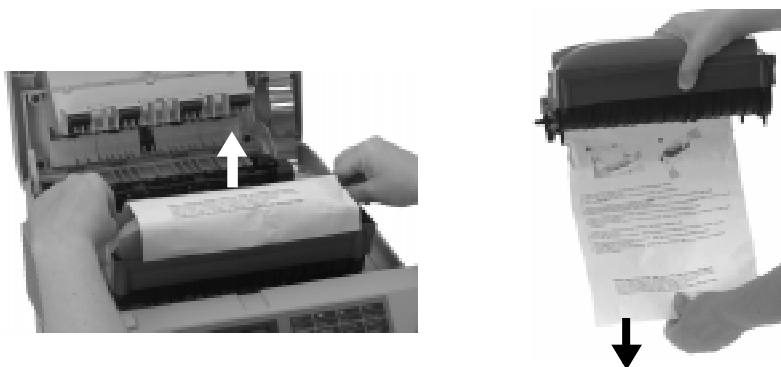


2. Lift the cover (the cover must be lifted completely to remove the image drum cartridge).



***Caution! Be careful not to touch the image drum's shiny green surface!***

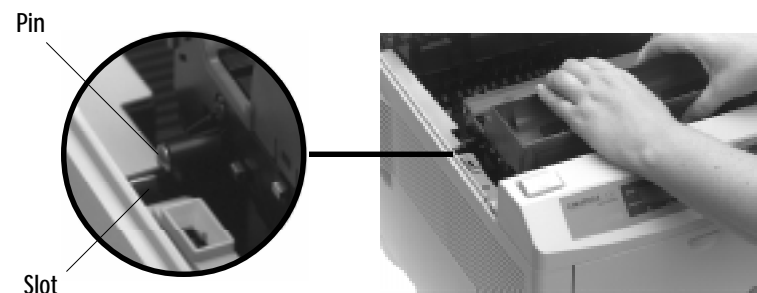
3. Lift out the image drum and remove the protective paper.



4. Remove the tape and shipping insert from the image drum and discard them.

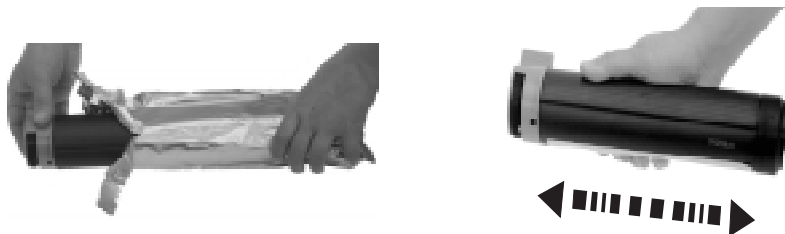


5. Reinstall the image drum in the printer, placing the alignment pins on each side of the drum into the slots in the printer.



# Install the Toner

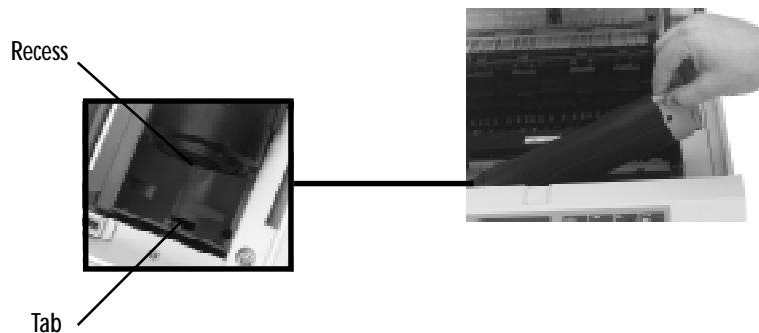
1. Remove the toner cartridge from the foil package and shake it from side to side a few times to distribute the toner evenly.



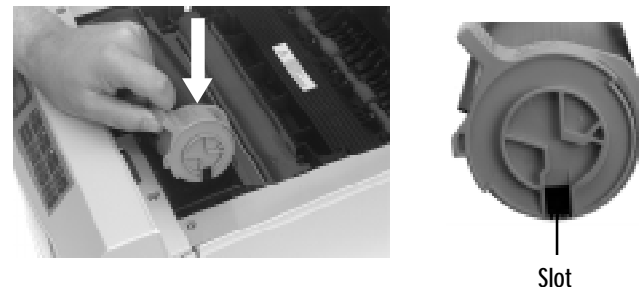
2. Carefully peel off the tape from the bottom of the cartridge.



3. Place the left end of the toner cartridge into the toner well, inserting the recess in the end of the toner cartridge over the tab on the image drum.



4. Lower the right side of the toner cartridge, aligning the slot in the cartridge with the ridge in the image drum.



5. Push the gray lock lever toward the back of the printer until it stops.



6. Close the printer cover.



**Note:** If you get toner on your clothing, brush it off with a dry cloth. Wash clothing in cold water; hot water sets toner.

# Load Paper

## Paper Specifications

When you buy paper, keep in mind that page printers require a smooth finish paper. For most everyday applications, paper rated for copiers and laser printers should work well with your printer. Before buying any large quantity of a particular paper, *always test a sample first*.

### Weight

- Main Tray: 16 - 28 lb.
- Optional Paper Expansion Tray: 16-28 lb.
- Front Feeder: 16 – 36 lb.
- Optional Multipurpose Feeder: 16-24 lb.
- Duplex Feeder (OKIPAGE 20DX): 16-24 lb. (*option* for OKIPAGE 20)

### Usable Types

- Bond
- Smooth, low moisture paper rated for copier and laser printers
- Cover stock; heavy bond (36 lb. max.): *Manual feed only*

### Finish

- Smooth, non-textured
- Copier-type paper or paper with a Sheffield rating of 100 to 250

### Composition

- 100% wood pulp or low cotton content

*Note: Most papers have some cotton or rag content. Avoid papers with a high cotton or rag content.*

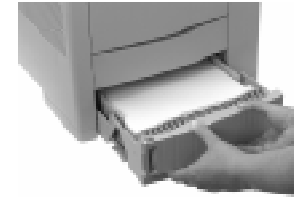
### Letterhead Stationery/Preprinted Forms

- Ink must withstand 392°F (200°C) for 0.1 second.

## Paper Feed Paths

Paper can be supplied to the printer in four ways:

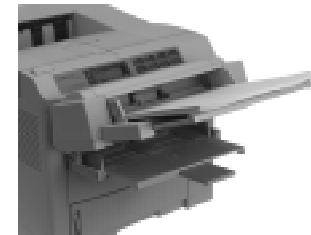
- From the paper tray which holds up to 530 sheets of 20-lb. paper



- From the 100-sheet Front Feeder (see Chapter 4)



- From the *optional* 100-sheet/50 envelope multipurpose feeder (see Chapter 7)



- From the *optional* paper expansion tray which holds up to 530 sheets of 20-lb. paper (see Chapter 7)



The paper tray will accommodate 16 to 28 lb. paper within the following size ranges:

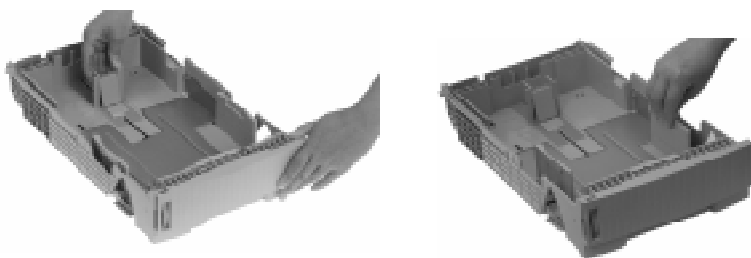
- **Width:** 3.4 to 8.5 inches (86.4 to 216 mm)
- **Length:** 5.5 to 14 inches (140 to 355.6 mm)

## Load the Paper Tray

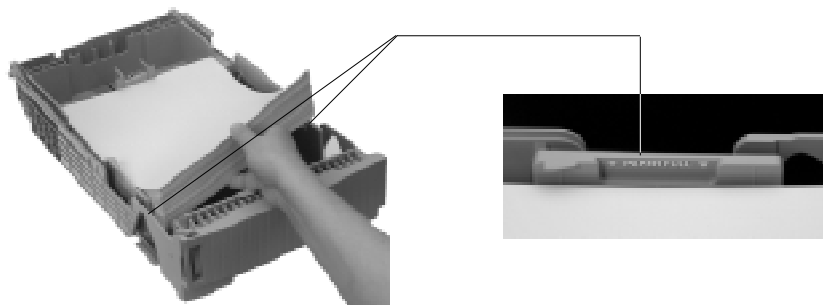
1. Pull out the paper tray.



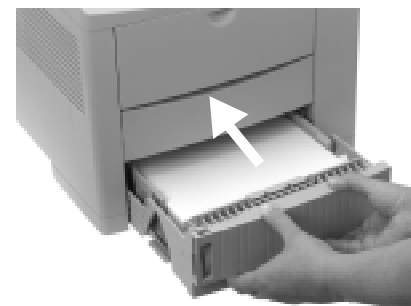
2. Adjust the rear and side paper guides *before* loading paper. This will help to avoid paper jams.



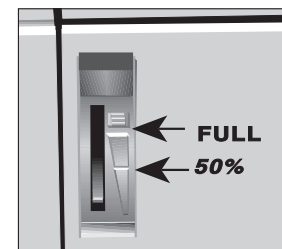
3. Fan a stack of paper (up to 530 sheets of 20 lb. paper) and place it in the tray under the tabs. Do not fill above the PAPER FULL marks.



4. Push the tray into the printer until it locks.



## The Paper Tray Gauge



The paper tray gauge indicates the amount of paper left in the tray. This eliminates having to open the tray to check how much paper remains.

## Storing Paper

If paper is stored improperly, print quality could be affected.

- Store paper in a dark, dry place such as a closet or a cabinet
- Don't open the package until you are ready to use it
- Always store paper lying flat or it may curl
- Store your paper in a static-free environment
- Ideally, store paper at a constant temperature of 70°F (21.1°C) with less than 50% humidity.
- Discard the top sheet from each ream of paper before loading it into the paper tray — it may be contaminated with glue or dust.

## Select a Paper Exit Path

The OKIPAGE 20 has two paper paths:

- **Top Exit:** the normal exit used for routine printing



- **Rear Exit:** used for special types of print media such as envelopes, labels, transparencies, etc.



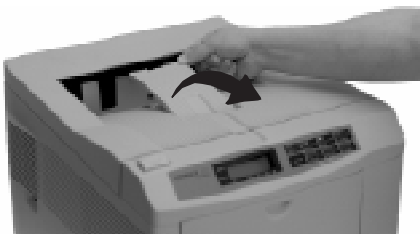
## Top Paper Exit

The top paper exit is the one normally used for routine printing.

- Printed pages feed face down into the bin on top of the printer
- Bin holds 250 sheets of 20 lb. paper
- Pages stack in the correct order
- When the bin is full, **STACKER FULL REMOVE THE PAPER** displays in the control panel window and printing will stop until the paper is removed

To use the top paper exit:

1. Lift out the paper catcher and pull it toward the front of the printer until it stops.



2. Flip up the extender.



## Rear Paper Exit

Use rear exit when printing on heavy paper, envelopes, labels, and transparencies.

- Printed pages feed face up into the rear tray
- Tray holds a maximum of 100 sheets of 20 lb. paper or 10 envelopes
- Pages stack in reverse order
- To avoid paper jams, remove paper when rear exit tray is full.

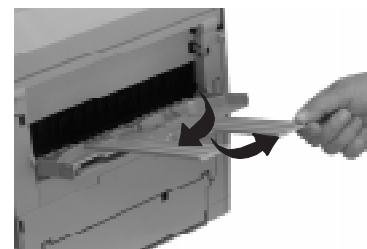
To use rear paper exit:

**Caution! Do not extend the rear exit tray while printing: a paper jam may occur!**

1. Pull the tray down.



2. Pivot out the extenders.





# Connect to Your Computer

## Parallel Connection

### Attach the Parallel Cable

We recommend that you use a bi-directional parallel printer cable. For best results, purchase a cable marked “IEEE 1284-compliant.”

**Important! To comply with FCC regulations, the cable must be shielded and UL and CSA approved.**

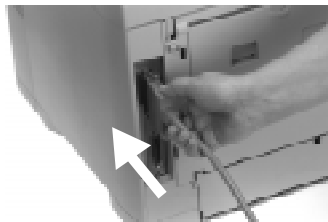
*Note: OKIDATA has tested and approved the following bi-directional cable: Part Number 70000803. See Appendix A for purchasing information.*

To connect the printer to your computer:

1. Turn both your printer and computer OFF.



2. Insert the wide connector on the cable into the parallel port on your printer. Make sure the connector is fully inserted, then snap both wire clips into the notches on the cable connector.



3. Insert the other end of the cable into the parallel port on your computer and tighten the screws.

**Caution! Be sure not to over tighten the screws — this could damage the screw posts on your computer!**

### IEEE 1284 Parallel Interface

Parallel cable requirements:

- Cable must be **shielded** with twisted pair conductors, and must be UL and CSA approved
- Maximum length for bi-directional cable is 6 feet (1.8 meters). For lengths greater than 6 feet, use a cable marked IEEE 1284-compliant.
- Printer connector is an IEEE 1284-B receptacle (36 pins, 0.085” center line)
- Port supports bi-directional IEEE 1284 communications (compatibility, nibble, and ECP modes)

### Bi-Directional Parallel Mode

If you are using the Status Monitor software, which provides on-line feedback of the printer status, BI-DIRECTION must be set to ENABLE (default) in the Level-2 printer main menu (see Chapter 3).

The recommended cable length for bi-directional communications is 6 ft. (1.8 meters). The standard parallel cables available at computer stores should work fine. For extended distances, higher quality IEEE 1284-compliant cables are available.

### Parallel Interface Pin Assignments

Pin No.	Signal Name	Signal Direction	Compatible	Nibble	ECP	Functions
1	Data Strobe	To printer	nStrobe	Host C'lk	Host C'lk	Parallel data sampling strobe
2-8	Data Bit n	To printer	Data n (LSB)	Data n (LSB)	Data n (LSB)	Parallel input data
9	Data Bit 8	To printer	Data 8 (MSB)	Data 8 (MSB)	Data 8 (MSB)	Parallel input data
10	Acknowledge	From printer	nAck	PtrC'lk	PeriphC'lk	Completion of data input or end of functioning
11	Busy	From printer	Busy	PtrBusy	PeriphAck	During print processing or during alarm
12	Paper End	From printer	PError	AckDataReq	nAckReverse	End of paper
13	Select	From printer	Select	Xflag	Xflag	Select state (on-line)
14	Auto Feed	To printer	nAutoFd	HostBusy	HostAck	Request to change mode
15	-	-	-	-	-	(not used)
16	0V	-	Logic Gnd	Logic Gnd	Logic Gnd	Signal ground
17	Chassis Ground	-	Chassis Gnd	Chassis Gnd	Chassis Gnd	Chassis ground
18	+5V	From printer	Peripheral Logic High	Peripheral Logic High	Peripheral Logic High	50 mA max.
19	0V	-	Signal Ground (nStrobe)	Signal Ground (nStrobe)	Signal Ground (nStrobe)	Signal ground
20 to 27	0V	-	Signal Ground (Data 1-8)	(Data 1-8)	(Data 1-8)	Signal ground
28	0V	-	Signal Ground (PError, Select, nAck)	Signal Ground (PError, Select, nAck)	Signal Ground (PError, Select, nAck)	Signal ground
29	0V	-	Signal Ground (Busy, nFault)	Signal Ground (Busy, nFault)	Signal Ground (Busy, nFault)	Signal ground
30	0V	-	Signal Ground (nAutoFd, nSelectIn, nInit)	Signal Ground (nAutoFd, nSelectIn, nInit)	Signal Ground (nAutoFd, nSelectIn, nInit)	Signal ground
31	Input PRIME	To printer	nInit	nInit	nReverseReq	Initializing signal
32	Fault	From printer	nFault	nDataAvail	nPerophReq	Paper out or during alarm
33	0V	-	-	-	-	Signal ground
34	-	-	-	-	-	-
35	-	From printer	-	-	-	Fix at Logic "1"
36	Select In	To printer	nSelectIn	1284 Active	1284 Active	Request to change Mode

## Serial Connection: RS232-C

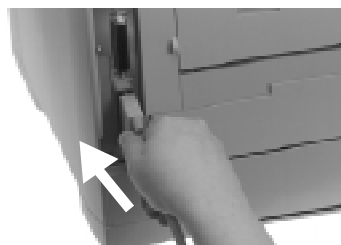
### Attach the Serial Cable

To connect the printer to your computer:

1. Turn both your printer and computer OFF.



2. Insert the male connector on the cable into the serial port on your printer.  
Make sure the connector is fully inserted, then tighten the screws.



3. Insert the other end of the cable into the serial port on your computer and tighten the screws.

**Caution!** *Be sure not to over tighten the screws — this could damage the screw posts!*

### RS232-C Serial Interface

Serial cable requirements:

- Cable must be **shielded** with twisted pair conductors, and must be UL and CSA approved
- Maximum length for serial cable is 6 feet (1.8 meters).
- Printer connector is Type 17LE-13250-27 (D4CC) receptacle (25 pins)

### Serial Mode

The serial interface settings on your printer and computer must match. To change printer settings, enter the Level 2 menu (press ON-LINE to place the printer off-line, then press MENU 1/*Menu* 2 for 2 seconds, until PRINT MODE appears) and select the RS232C SERIAL category. Set FLOW CONTROL, BAUD RATE, DATA BITS, PARITY, and MIN. BUSY to match the settings on your computer. Following are the printer default settings for these parameters:

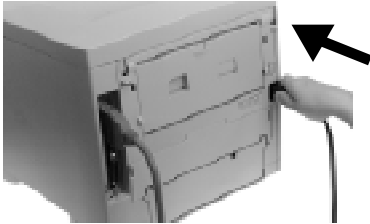
FLOW CONTROL	DTR HI POLARITY
BAUD RATE	9600 BAUD
DATA BITS	8 BITS
PARITY	NONE
MIN. BUSY	200 mSECONDS

Serial Interface Pin Assignments

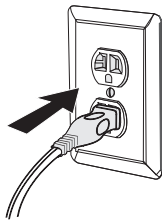
Pin	Signal	Symbol	Direction
1	Frame Ground	FG	-
2	Transmitted Data	TD	To printer
3	Received Data	RD	To printer
4	Request to Send	RTS	From printer
5-6	-	-	-
7	Signal Ground	SG	-
8-17	-	-	-
18	+5V (50 ma max.)	-	From printer
19	-	-	-
20	Data Terminal Ready	DTR	From printer
21-25	-	-	-

## Connect to Power

1. Plug the female end of the power cord supplied with the printer into the power socket on the back of the printer.



2. Plug the other end of the cable into a suitable *grounded* power outlet or power strip.



**Caution!** *If you are using a power strip, be sure the total amperage rating of the strip does not exceed the total amperage of the equipment plugged into it.*

## Check the Menu: *Model 20DX Only*

Check the menu to be sure that the Duplex printing feature is turned on:

1. Turn the printer ON.  
*INITIALIZING displays briefly in the control panel window, then ON-LINE displays.*
2. Press ON-LINE to place the printer off-line.
3. Press MENU1/*Menu 2*.  
*PERSONALITY displays.*

4. Press MENU1/*Menu 2* twice.  
*DUPLEX PRINTING displays.*
5. Make sure the second line of the display reads ON \*. If not, press the ENTER button, then ►/*Reset*, then ENTER.  
*ON \* displays.*
6. Press ON LINE to exit the menu.

## Print the Demo Page

1. Turn the printer ON.  
*INITIALIZING displays briefly in the control panel window, then ON-LINE displays.*
2. Press ON-LINE to place the printer off-line.
3. Press FORM FEED/*Print Demo* for 2 seconds (until the display reads PRINT DEMO PAGE).
4. To print the Demo Page for the HP® PCL6 emulation, press ENTER/*Power Save*. To print the Demo Page for the IBM® or Epson® emulation, press ►/*Reset* until the emulation you want appears on the second line of the display, then press ENTER/*Power Save*.  
*The Demo page prints.*

## Install the Printer Software



You are now ready to install the printer software. See the separate booklet “Software Install Guide” for information on printer drivers and instructions on loading the printer software.

# Chapter 2: The Control Panel

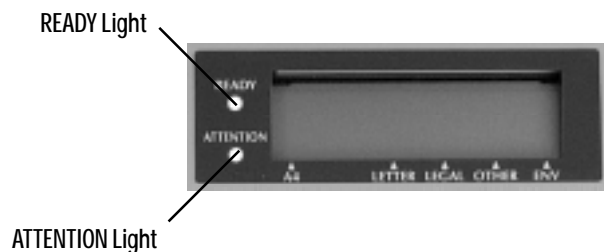
## Select the Display Language

Printer messages can be displayed in the control panel window in a number of languages. English is the default language. To change the display language:

1. Press ON-LINE to change the printer status to off-line.
2. Press MENU 1/Menu 2 and hold for 2 seconds.  
**PRINT MODE** displays.
3. Press MENU 1/Menu 2 until **LANGUAGE** displays.
4. Press ENTER/Power Save.  
**ENGLISH** displays.
5. Press ►/Reset until the desired language displays.
6. Press ENTER/Power Save to select the new language as the default setting.
7. Press ON-LINE to engage the change and place the printer back on-line.

## Control Panel Lights

The lights indicate the printer status:



### READY Light (Amber)

**On:** Printer is on-line, ready to receive data

**Off:** Printer is off-line, unable to receive data; initializing; warming up; error

**Blinking:** Printer is printing a menu, fonts, or demo page

### ATTENTION Light (Red)

**On:** Warning—toner is low, change drum, near end of fuser life

**Off:** Normal state

**Blinking:** Operator assistance required—paper jam, paper out, paper request, service required

## Paper Size Indicator



Paper Size Indicator  
[set for LETTER, the default]

The flashing marker in the printer display window indicates the paper size installed in the paper tray. This feature eliminates having to open the paper tray to see which paper size is loaded.

# Control Panel Button Functions



To access printer functions from the control panel, place the printer off-line (press the ON-LINE button: OFF-LINE appears on the display).

- To access the top function of each button, press the button briefly.
- To access the bottom function, press and hold the button for 2 to 3 seconds.

## Button Function Summary



**Press:** Enters Level-1 menu. Once in the Level-1 menu, press this button to move to the next menu item, or press and hold to cycle backwards through all the Level-1 menu categories.

**Press/hold:** Enters Level-2 menu.



**Press:** In Menu Mode returns to previous item; press and hold to cycle backwards through all the items within a category. Also used with **Reset** to generate a drum cleaning page: see “Generating a Drum Cleaning Page” in Chapter 8.

**Press/hold:** Clears error condition and returns printer on-line.



**Press:** In Menu Mode advances to the next item. Also used with **Recover** to generate a drum cleaning page: see “Generating a Drum Cleaning Page” in Chapter 8.

**Press/hold:** Deletes data in buffer and executes internal reset.



**Press:** In Menu Mode: sets displayed Menu item as the user default.

**Press/hold:** Enters the Power Save quick menu.



**Press:** Changes printer status from receive data mode (on-line) to local function mode (off-line).



**Press:** Enters the Paper Size Quick Menu.

**Press/hold:** Prints a listing of the current and default menu settings (HP PCL 6, IBM Proprinter III XL, or Epson FX).



**Press:** Enters the Tray Select Quick Menu.

**Press/hold:** Prints a sample of installed printer fonts (HP PCL 6, IBM Proprinter III XL, or Epson FX).



**Press:** Ejects the current page. Any data held in the buffer is printed.

**Press/hold:** Prints a Demo Page (HP PCL 6, IBM Proprinter III XL, or Epson FX).

# Chapter 3: The Printer Menus

Most printer features are selected directly from your software application. If you want to use the printer's Menu to select features, see Chapter 3. *Remember, features selected in your software will override features selected in the printer's Menu.*

## Selecting Printer Features Using Your Software

Most printer features like font, paper size, and page orientation can be set in your software program. This is the easiest way to control your printer. Check your software documentation for information.

## Selecting Printer Features Using Your Printer Driver

Printer features can also be set using the Status Monitor software included with your printer. However, these settings will be overridden by any settings made within your software package.

## Selecting Printer Features Using the Printer Main Menu

You can also select printer features in the printer main menus by using the control panel. However, *features set in your software program will override the same features selected in the printer main menu.*

**Important! Use the printer main menu only when your software does not let you select features or when you are setting printer features that your software does not control.**

## Printing the Main Menu

To print a list of the menu items and settings currently engaged:

1. Place the printer off-line (press ON LINE).
2. Press and hold PAPER SIZE/*Print Menu* until the display reads PRINT MENU.
3. To print the menu for the HP PCL6 emulation, press ENTER/*Power Save*. To print the menu for the IBM or Epson emulation, press ►/*Reset* until the emulation you want appears on the second line of the display, then press ENTER/*Power Save*.
4. The menu prints.

The printout shows the factory default settings, the current user settings, and the amount of memory installed in your printer.

## How to Use the Main Menu

Main menu features are

- accessed using control panel buttons
- displayed in the control panel window
- organized by Categories → Items → Selections

There are two levels within the main printer menu: Level-1 and Level-2. To access the menus, place the printer off-line (press ON LINE), then

- to access the Level-1 menu, press MENU 1/*Menu 2* (the display will read PERSONALITY).
- to access the Level-2 menu, press and hold the MENU 1/ *Menu 2* button until the display reads PRINT MODE).

## Quick Access Menus

The PAPER SIZE, TRAY TYPE, and POWER SAVE menu features can be accessed directly without having to step through the main menu.

To do this:

1. Place the printer off-line (press ON LINE).
2. Press and release PAPER SIZE, or  
Press and release TRAY TYPE, or  
Press POWER SAVE *for two full seconds*.
3. Press ► repeatedly until you see the selection you want.
4. Press ENTER/Power Save to set the selection as the default.  
*An asterisk (\*) appears to indicate the new default setting.*
5. Press ON LINE to exit the menu and place the printer back on-line.

## Using the Level-1 Menu

1. Press ON-LINE to place the printer off-line.
2. Press MENU 1/Menu 2 to enter the Level-1 menu.
3. Continue to press MENU 1/Menu 2 repeatedly to advance through the Level-1 menu categories.
3. Press ENTER/Power Save to select a category.  
*The current default setting displays.*  
  
***Note:** Some categories include more than one item. In such categories, after you press ENTER, press MENU 1/Menu 2 to advance to the next item before proceeding to step 4.*
4. Press ► repeatedly to display the selections. Stop when you see the selection you want.
5. Press ENTER/Power Save to set a selection as the default.  
*An asterisk (\*) appears to indicate the new default setting.*
6. Repeat steps 3 through 5 until you have made all the menu changes you wish to make, then press ON LINE to exit the Menu Mode and place the printer back on-line.

## Notes:

- If the MENU 1/Menu 2 button is pressed and held while in Menu Mode, the printer cycles through the categories in reverse order.
- If you enter the Level-1 menu and make a selection while there is data present in the buffer, or while a DLL/Macro is present, the RESET TO SAVE message appears on the display. When you press the ►/Reset button, all data in the buffer and any temporary soft fonts or macros will be cleared.

## Example:

If you have one of the optional paper expansion trays installed and you want to set the printer to automatically switch to another tray with the same size paper when the first tray runs out of paper:

1. Press ON LINE.
2. Press MENU 1/Menu 2 to enter the Menu Mode.
3. Press MENU 1/Menu 2 again to move to the TRAY SELECT category.
4. Press ENTER.
5. Press MENU 1/Menu 2 twice to move to the AUTO TRAY SWITCH item.
6. Press ► once to get to the ON selection.
7. Press ENTER to engage the ON selection (an asterisk will appear next to ON).
8. Press ON LINE to exit the Menu Mode.



## Level-1 Menu Settings

### Summary of Level-1 Categories:

- PERSONALITY
- TRAY SELECT
- DUPLEX PRINTING
- EDIT SIZE
- PAPER SIZE
- MEDIA TYPE
- PAPER SIZE CHECK
- COPIES
- FONTS & SYMBOLS
- PAGE LAYOUT1
- PAGE LAYOUT2
- HOST INTERFACE

Level-1 Menu Categories (e.g., **PERSONALITY**), Items (e.g., EMULATION) and Selections (e.g., HP LaserJet 5, IBM PPR II XL, Epson FX) are summarized below: default Selections are in *italic* (e.g., *AUTO Emulation*).

### PERSONALITY

#### EMULATION

*AUTO Emulation*

HP LaserJet 5

IBM PPR III XL

Epson FX

Adobe® PostScript® (appears only if PostScript selection is installed)

**Notes:** Auto Emulation automatically switches between HP LaserJet 5, IBM PPR III XL and Epson FX emulations.

### TRAY SELECT

#### MANUAL FEED

*OFF*

ON

**Notes:** Selects Manual Feed mode: paper is fed from the Manual Feeder regardless of the PAPER FEED setting. When the job is ready to print, MANUAL REQUEST will appear on the display; be sure to place paper on Manual Feeder, then press FORM FEED button to start printing.

#### PAPER FEED

*TRAY 1*

TRAY 2\*

TRAY 3\*

FRONT TRAY (Manual Feeder)

MULTI FEEDER\*

**Notes:** \* Selection only appears if appropriate optional accessory is installed.  
Select paper source.

#### AUTO TRAY SWITCH

*OFF*

ON

**Notes:** ON = When paper tray, printer automatically switches to the optional Paper Expansion Tray, if installed, then to the Manual Feeder, then to the optional Multi-Purpose feeder, if installed.

**DUPLEX PRINTING** (appears in OKIPAGE 20 menu only if Duplex Feeder is installed.)

#### DUPLEX

ON

*OFF*

**Notes:** Selects duplex printing (for OKIPAGE 20, optional Duplex Feeder must be installed).

### DUPLEX PRINTING (continued)

#### BIND

*LONG EDGE*

SHORT EDGE

**Notes:** Select the orientation for duplex printing so that the front and back of printing is properly aligned for the selected orientation of the pages (Duplex Printing must be set to ON). Long Edge sets the orientation for portrait printing. Short Edge sets the orientation for landscape printing.

### EDIT SIZE

#### CASSETTE SIZE

LETTER

EXECUTIVE

LEGAL 14

LEGAL13

A4 SIZE

A5 SIZE

A6 SIZE

B5 SIZE

COM-9

COM-10

MONARCH

DL ENVELOPE

C5 ENVELOPE

C4 ENVELOPE

**Notes:** *HP PCL6 mode:* Sets the paper size when the software does not. With the default Cassette Size selected, the paper size will be whatever is detected in the paper tray. If manual feed is being used, the paper size will be the one selected in the Level-1 menu (default is letter).

*PostScript mode:* Ignored.

## Level-1 Menu Settings (continued)

### PAPER SIZE

#### FRONT/MANUAL

LETTER  
EXECUTIVE  
LEGAL 14  
LEGAL13  
A4 SIZE  
A5 SIZE  
A6 SIZE  
B5 SIZE  
COM-9  
COM-10  
MONARCH  
DL ENVELOPE  
C5 ENVELOPE  
C4 ENVELOPE

**Notes:** Select paper size installed in Manual Feeder. If paper size installed does not match setting, printer will display message requesting the size set in menu.

#### MULTI FEEDER (appears if option is installed)

LETTER  
EXECUTIVE  
LEGAL14  
LEGAL13  
A4 SIZE  
A5 SIZE  
A6 SIZE  
B5 SIZE  
COM-9  
COM-10  
MONARCH  
DL ENVELOPE  
C5 ENVELOPE

**Notes:** Appears only if the optional Multi-Purpose Feeder is installed.

### MEDIA TYPE

#### TRAY 1

LIGHT  
MEDIUM LIGHT  
MEDIUM  
MEDIUM HEAVY  
HEAVY

**Notes:** Improves print quality and toner fusing.

Light = 16 lb (60 g/m<sup>2</sup>)  
Medium Light = 18 lb (68 g/m<sup>2</sup>)  
Medium = 20 lb (75 g/m<sup>2</sup>)  
Medium Heavy = 24 lb (90 g/m<sup>2</sup>)  
Heavy = 28 lb (105 g/m<sup>2</sup>)

#### TRAY 2 (appears if option is installed))

LIGHT  
MEDIUM LIGHT  
MEDIUM  
MEDIUM HEAVY  
HEAVY

**Notes:** Improves print quality and toner fusing. Only appears in the menu when the optional Paper Expansion Tray is installed.

Light to Heavy weight values are same as specified for Tray 1.

#### TRAY 3 (appears if option is installed))

LIGHT  
MEDIUM LIGHT  
MEDIUM  
MEDIUM HEAVY  
HEAVY

**Notes:** Improves print quality and toner fusing. Only appears in the menu when two optional Paper Expansion Trays are installed.

Light to Heavy weight values are same as specified for Tray 1.

### MEDIA TYPE (continued)

#### FRONT/MANUAL

LIGHT  
MEDIUM LIGHT  
MEDIUM\*  
MEDIUM HEAVY  
HEAVY  
TRANSPARENCY

**Notes:** Specify print media weight/type to improve print quality and toner fusing.

Light to Heavy weight values are same as specified for Tray 1.

#### MULTI FEEDER (appears if option is installed))

LIGHT  
MEDIUM LIGHT  
MEDIUM\*  
MEDIUM HEAVY  
HEAVY  
TRANSPARENCY

**Notes:** Specify print media weight/type to improve print quality and toner fusing.

Light to Heavy weight values are same as specified for Tray 1.

### PAPER SIZE CHECK

ENABLE  
DISABLE

**Notes:** ENABLE = printer only accepts paper size selected in software which matches size of paper actually loaded in tray.

DISABLE = printer will accept any paper size selected in software.

### COPIES

1 to 999

**Notes:** Select number of copies to print for each document.

## FONTS & SYMBOLS

### FONT SOURCE

*RESIDENT*  
*SIMM*  
*DOWNLOAD*

**Notes:** Select font source.

*SIMM* appears only if optional Flash ROM *SIMM* is installed.

*DOWNLOAD* appears if a soft font is loaded.

### FONT NO.

*I000* to *I0xx*  
*C000*  
*S001*

**Notes:** xx = font ID number (see font print sample).

Prefix indicates font source:

I = internal (resident) — *I000* = Courier;

C = Card Font (appears only if optional Flash ROM *SIMM* is installed)

S = downloaded soft font (appears only if soft font is loaded)

### FONT HEIGHT

*10.00 CPI*  
Range: 0.44 to 99.99 CPI

**Notes:** Appears if scalable, fixed Courier or Letter Gothic font is selected.

CPI = characters per inch, settable in 0.01-cpi (press **►/Reset**) or 0.1-cpi (press/hold **►/Reset**) increments.

## FONTS & SYMBOLS (continued)

### FONT HEIGHT

*12.00 POINT*  
4.00 to 999.75 points

**Notes:** Appears if font selected is proportional/scalable (e.g., CG Times, CG Omega, Univers, etc.).

Sets character height in points in 0.25-point (press **►/Reset**) or 1-point (press/hold **►/Reset**) increments.

72 points = 1 inch

### SYMBOL SET (HP PCL6 emulation)

*PC-8*, *ROMAN-8*, *ISO L1*, *PC-8 Dan/Nor*, *PC-850*, *Legal*, *ISO-2 IRV*, *ISO-4 UK*, *ISO-6 ASC*, *ISO-10 S/F*, *ISO-11 SWE*, *ISO-14, JASC*, *ISO-15 Ita*, *ISO-16 Por*, *ISO-17 Spa*, *ISO-21 Ger*, *ISO-25 Fre*, *ISO-57 Chi*, *ISO-60 Nor*, *ISO-61 Nor*, *ISP-69 Fre*, *ISO-84 Por*, *ISO-85 Spa*, *German*, *Spanish*, *ISO Dutch*, *Roman Ext*, *ISO Swedish1*, *ISO Swedish2*, *ISO Swedish3*, *IBM-437*, *IBM-850*, *IBM-860*, *IBM-863*, *IBM-865*, *PC Set1*, *PC Ext US*, *PC Ext D/N*, *PC Set2 US*, *PC Set2 D/N*, *UN Math*, *UN Int'l*, *UN US*, *PS Math*, *PS Text*, *Math-8*, *Pi Font*, *MS Publish*, *Win 3.0*, *DeskTop*, *Win 3.1 L1*, *MC Text*, *PC-852*, *Win 3.1 L5*, *Win 3.1 L2*, *CWI Hung*, *PC-857 TK*, *ISO L2*, *ISO L5*, *PC-8 TK*, *Kamenicky*, *Hebrew NC*, *Hebrew OC*, *Plska Mazvia*, *ISO L6*, *Win 3.1 Cyr*, *PC-866*, *Win 3.1 Grk*, *PC-869*, *PC-855*, *Greek-437*, *Greek-437 Cy*, *Greek-928*, *Win 3.1 Heb*, *Serbo Croat2*, *Ukrainian*, *Bulgarian PC-1004*, *WIN BALTIC*, *PC-775*, *Serbo Croat1*, *HP ZIP*, *USPSZIP*, *USPSFIM*, *USPSSTP*, *Wingdings*, *Symbol*, *OCR-A*, *OCR-B*

## PAGE LAYOUT1

### A4 PRINT WIDTH

*78 COLUMN*  
*80 COLUMN*

**Notes:** HP Mode only. When using A4 size paper, select 78 columns or condense to 80 columns so characters will fit on a line.

### WHITE PAGE SKIP

*OFF*  
*ON*

**Notes:** HP Mode only. ON = printer will ignore FF code when buffer is empty. (Cancels printing a blank page at the end of a print job.)

### CR FUNCTION

*CR*  
*CR + LF*

**Notes:** HP Mode only. CR + LF = add LF command to each CR command.

### LF FUNCTION

*LF*  
*LF + CR*

**Notes:** HP Mode only. LF+CR= add CR command to each LF command.

## PAGE LAYOUT2

### ORIENTATION

*PORTRAIT*  
*LANDSCAPE*

**Notes:** Sets printing oriented with the width of the page (Portrait) or with the length of the page (landscape).

### LINES PER PAGE

*60 LINES*  
5 TO 128 LINES

**Notes:** Select lines per page in 1 line increments.

## Level-1 Menu Settings (continued)

### HOST INTERFACE

#### PARALLEL

*ENABLE*  
*DISABLE*

**Notes:** Enables parallel interface.

#### RS232C

*ENABLE*  
*DISABLE*

**Notes:** Enables serial interface.

#### OKI HSP

*ENABLE*  
*DISABLE*

**Notes:** Enables network interface.

## Level-1 Menu Selections for IBM PPR III XL & EPSON FX Emulations

Default settings below are in *italic*.

### FONTS & SYMBOLS

#### CHARACTER PITCH

*10 CPI*  
*12 CPI*  
*17 CPI*  
*20 CPI*  
*PROPORTIONAL*

**Notes:** Specifies character pitch.

#### FONT CONDENSE

*12 CPI to 20 CPI*  
*12 CPI to 12 CPI*

**Notes:** IBM emulation only.

### FONTS & SYMBOLS (continued)

#### CHARACTER SET

*SET 2*  
*SET 1*

**Notes:** Choose Character Set: Standard IBM Set 1 or Line Graphics IBM Set II

#### SYMBOL SET

*IBM 437, IBM 850, IBM 860, IBM 863, IBM 865, PC Set1, PC Ext US, PC Ext D/N, PC Set2 US, PC Set2 D/N, Roman-8, ISO L1, PC-8, PC-Dan/Nor, PC-850, Legal, ISO-2 IRV, ISO-4 UK, ISO-6 ASC, ISO-10 S/F, ISO-11 Swe, ISO-14 JASC, ISO-15 Ita, ISO-16 Por, ISO-17 Spa, ISO-21 Ger, ISO-25 Fre, ISO-57 Chi, ISO-60 Nor, ISO-61 Nor, ISO-69 Fre, ISO-84 Por, ISO-86 Spa, German, Spanish, ISO Dutch, Roman Ext, ISO Swedish1, ISO Swedish2, ISO Swedish3, UN Math, UN Int'l, UN US, PS Math, PS Text, Math-8, Pi Font, MS Publish, Win 3.0, DeskTop, Win 3.1 L1, MC Text, PC-852, Win 3.1 L5, Win 3.1 L2, CWI Hung, PC-857 TK, ISO L2, ISO L5, PC-8 TK, Kamenicky, Hebrew NC, Hebrew OC, Plska Mazvia, ISO L6, Win 3.1 Heb, Win 3.1 Cyr, PC-866, Win 3.1 Grk, PC-869, PC-855, Greek-437, Greek-437 Cy, Greek-928, Serbo Croat2, Ukranian, Bulgarian, PC-1004, Win Baltic, PC-775, Serbo Croat1*

**Notes:** Selects special character set to be used.

#### LETTER O STYLE

*DISABLE*  
*ENABLE*

**Notes:** Specifies the style of the letter O.

#### ZERO CHARACTER

*NORMAL*  
*SLASHED*

**Notes:** Sets whether or not the number 0 will have a slash through it to differentiate it from the capital letter O.

### PAGE LAYOUT1

#### LINE PITCH

*6 LPI*  
*8 LPI*

**Notes:** Sets the number of lines per inch.

#### WHITE PAGE SKIP

*OFF*  
*ON*

**Notes:** Sets whether blank pages are "printed."

#### CR FUNCTION

*CR*  
*CR+LF*

**Notes:** Sets what happens when CR command is received. CR + LF produces a line feed after the carriage return.

#### LF FUNCTION

*LF*  
*LF+CR*

**Notes:** IBM emulation only.

Sets what happens when a LF command is received. LF+CR produces a carriage return in addition to the line feed.

#### LINE LENGTH

*80 COLUMN*  
*136 COLUMN*

**Notes:** Specifies the number of characters in one line.

#### FORM LENGTH

*11 INCH (LETTER)*  
*11.7 INCH (A4)*

**Notes:** Specifies length of paper.

**TOF POSITION***0.0 INCH*

Range 0.0 to 1.0 INCH

**Notes:** Sets Top of Form in 0.1-inch increments. This determines the print start position relative to the top of the paper.

**LEFT MARGIN***0.0 INCH*

Range 0.0 to 1.0 INCH

**Notes:** Shifts the left margin further to the right.

**Using the Level-2 Menu**

The Level-2 menu includes selections that are rarely changed once they are set. To access the Level-2 menu:

1. Press ON-LINE to place the printer off-line.
2. Press and hold MENU 1/*Menu 2* until you see PRINT MODE on the display. Once you are in the menu, press MENU 1/*Menu 2* repeatedly to advance through the Menu categories.
3. Press ENTER to select a category.  
*The current default setting displays.*
4. Press ►/*Reset* repeatedly until you see the selection you want.
5. Press ENTER to set a selection as the default.  
*An asterisk (\*) will appear to indicate the new default setting.*

**Note:** *Some categories include a number of items. In such categories, after you press ENTER in step 3, press MENU 1/*Menu 2* to advance to the next selection before proceeding to step 4.*

**Summary of Level-2 Categories:**

- PRINT MODE
- MEMORY USAGE
- AUTO OPERATION
- DARKNESS CONTROL
- POWER SAVING
- LOW TONER
- TONER SAVING
- CLEARABLE WARNINGS
- ERROR REPORT
- PARALLEL I/F
- RS232C SERIAL
- LANGUAGE

**Level-2 Menu Settings**

Level-1 Menu Categories (e.g., **PRINT MODE**), Items (e.g., RESOLUTION) and Selections (e.g., 600x1200 DPI, 300 DPI) are summarized below: default selections are in *italic* (e.g., *600 DPI*).

**PRINT MODE****RESOLUTION***600 DPI*

600x1200 DPI

300 DPI

**Notes:** Select print density in dots per inch. When a print job is sent at a resolution which is different from this menu setting, it will automatically be converted and printed at the value selected in the print job.

**MEMORY USAGE****FONT PROTECTION***AUTO*

OFF

400 KB

**Notes:** *HP PCL 6 mode:* Sets the font cache size. If you change settings, the printer memory will be reconfigured and all downloaded fonts and PCL macros will be lost.

*PostScript mode:* Fixed at automatic; other settings not implemented at this time.

**MEMORY FREE AREA***####KB/ReadOnly*

**Notes:** Displays memory area available for downloading fonts (cannot be changed through the menu).

Level-2 Menu Settings (continued)

AUTO OPERATION

AUTO CONTINUE

OFF  
ON

**Notes:** *HP PCL 6 mode:* controls what happens when a memory overflow/print overrun situation occurs. OFF = printer will remain off-line until you press the /Recover button. ON = printer will return to the on-line state automatically 15 seconds after it goes off-line.

*PostScript mode:* this setting is ignored. When a memory overflow/print overrun situation occurs, the ATTENTION light will come on until the print process is completed. It will then automatically go out and the printer will return to the on-line state.

WAIT TIMEOUT

OFF  
Range 5 to 300 SEC

**Notes:** Sets the length of time the printer waits for additional data to be received.

*HP PCL 6 mode:* If the amount of time selected passes before the printer receives additional data, the printer will print any data it has in the buffer and reset.

*PostScript mode:* If the amount of time selected passes before the printer receives additional data, the printer will cancel the print job immediately and reset without any further printing.

AUTO OPERATION (continued)

MANUAL TIMEOUT

60 SECONDS  
30 SECONDS  
OFF

**Notes:** PostScript mode only. Sets the amount of time the printer will wait for paper to be loaded in the Manual Feeder before cancelling the print job.

DARKNESS CONTROL

DARKNESS

0  
+1  
+2  
-2  
-1

**Notes:** Set print density (darkness). Negative values lighten print; positive values darken print.

POWER SAVING

0 SEC  
8 MIN  
DISABLE

**Notes:** 0 SEC = Reduces power consumption. Immediately after printer stops receiving data, fuser heating element shuts off; 30 seconds later fan shuts off. When printer receives data, fuser warms up before printing begins.

8 MIN. = Reduces power consumption. 8 minutes after printer stops receiving data, fuser heating element shuts off; 30 seconds later fan shuts off. When printer receives data, fuser warms up before printing begins.

DISABLE = Fuser and fan are always on, printer is ready to print at all times.

LOW TONER

ON  
OFF

**Notes:** ON = When low toner is detected, TONER LOW displays, indicating that toner cartridge should be replaced soon: at this point 100 more sheets will print before the TONER EMPTY message displays.

OFF = When low toner is detected, TONER EMPTY displays, indicating that the toner cartridge needs replacement. You must replace the toner cartridge immediately, or open and close the cover to remove the message, which will then reappear after every 20 pages are printed.

TONER SAVING

DISABLE  
MEDIUM  
LIGHT

**Notes:** Select medium or light to reduce the amount of toner used. This will result in lighter printing to conserve toner and is recommended only for proofs and draft print jobs.

## CLEARABLE WARNINGS

ON  
JOB

**Notes:** Sets the disposition of error messages which can be cleared by pressing the ►/Reset button.

*HP PCL 6 mode:* ON = Message displays until you press ►/Reset to clear the display. OFF = Message will automatically clear when next print job is received, whether or not you have pressed the ►/Reset button.

*PostScript mode:* Invalid. Error message will automatically be cleared from display as soon as the print job ends.

## ERROR REPORT

OFF  
ON

**Notes:** *HP PCL 6 mode:* Invalid.

*PostScript mode:* Change to ON if you wish to set the printer to print the error contents and the operand stack condition during a PostScript error.

## PARALLEL I/F

### PARALLEL SPEED

HIGH  
MEDIUM

**Notes:** HIGH = Data transfer speed maximized. MEDIUM = Select if data transmission problems occur, or with earlier computers.

### BI-DIRECTION

ENABLE  
DISABLE

**Notes:** ENABLE = Select Bi-directional parallel communication (Compatible, Nibble, ECP).

DISABLE = Bi-directional communications are NOT supported.

### I-PRIME

OFF  
ON

**Notes:** Applicable only for IBM and Epson emulations. Sets whether or not the I-Prime signal is ignored (OFF = ignored).

## RS232C SERIAL

### FLOW CONTROL

DTR HI POLARITY  
DTR LO POLARITY  
XON/XOFF  
ROBUST XON

**Note:** Sets the type of serial communication protocol used.

## RS232C SERIAL (continued)

### BAUD RATE

300 BAUD  
600 BAUD  
1200 BAUD  
2400 BAUD  
4800 BAUD  
9600 BAUD  
19200 BAUD

**Note:** Sets the communication speed in bits per second.

### DATA BITS

8 BITS  
7 BITS

**Note:** Sets the number of data bits used in serial interface communication.

### PARITY

NONE  
EVEN  
ODD

**Note:** Sets the serial interface parity.

### MIN. BUSY

200 mSECONDS  
2 SECOND

**Note:** Sets the length of the busy signal.

## LANGUAGE

### LANGUAGE

ENGLISH  
DEUTSCH  
FRANCAIS  
ITALIANO  
CASTELLANO  
SVENSKA  
NORSK  
DANSK  
NEDERLANDS  
TÜRKÇE  
PORTUGUES  
POLSKI

**Note:** Sets the display language

# The User Maintenance Menu

The User Maintenance Menu includes printer maintenance and operating functions. Functions are described below.

To enter the Maintenance Menu:

1. Turn off the printer.
2. Press and hold MENU 1/*Menu 2* while turning the printer on, until USER MNT displays.
3. Press MENU 1/*Menu 2* repeatedly to advance to the category you want.
4. Press ENTER to engage a category function, or press ► to see other selections, then press ENTER to engage the selection you want.
5. Press ON-LINE (except for HEX DUMP) to invoke the function.

## Summary of Maintenance Menu Categories:

- MENU RESET
- HEX DUMP
- DRUM CNT RESET
- REC BUF
- OP MENU
- X ADJUST
- Y ADJUST
- DUP ADJUST
- 2ND TRAY
- 3RD TRAY
- FRONT
- PLACE PG
- SETTING
- CLN CYCL

## Maintenance Menu Settings

### MENU RESET

**Note:** Resets the Level-1 menu to factory defaults.

### HEX DUMP

**Notes:** Prints a hex dump of received data for diagnostics. If less than a page of data is received, you must press the FORM FEED/*Print Demo* button to print the page.

To exit hex dump mode, turn off the printer.

### DRUM CNT RESET

**Note:** Use this to reset the drum counter after replacing, *and only after* replacing, the image drum cartridge.

### RECEIVE BUFFER

*AUTO*  
8KB  
20KB  
50KB  
100KB  
1MB

**Notes:** Sets the size of the receive buffer. If you set a large value, the printing speed will be faster, but memory overflows will occur more frequently. When this value is changed, all downloaded fonts, macros, and I/O data are lost.

### OP MENU

*ENABLE*  
*DISABLE*

**Notes:** DISABLE = Disables all control panel buttons except ON-LINE. Use this feature to prevent changing menu items you have personally selected.

ENABLE = All control panel buttons are active.

### X ADJUST

*0mm* (Range +2.00 to –2.00 mm, in 0.25 mm intervals)

**Notes:** Adjust horizontal print position in 0.25 mm increments. Plus (+) indicates right movement, minus (–) indicates left movement.

### Y ADJUST

*0mm* (Range +2.00 to –2.00 mm, in 0.25 mm intervals)

**Notes:** Adjust vertical print position in 0.25 mm increments. Plus (+) indicates downward movement, minus (–) indicates upward movement.

In PostScript mode, any negative values selected will be ignored.



## DUP ADJ

0mm (Range +2.00 to -2.00 mm, in 0.25 mm intervals)

**Notes:** For the OKIPAGE 20, this setting only applies when the optional Duplex Feeder is installed.

Adjust vertical print position in 0.25 mm increments. Plus (+) indicates downward movement, minus (-) indicates upward movement.

In PostScript mode, any negative values selected will be ignored.

## 2ND TRAY

5 (Range 1 to 16)

**Notes:** Applies only when the optional Paper Expansion Tray is installed. Sets the priority of the optional tray in the HP PCL 6 emulation.

## 3RD TRAY

9 (Range 1 to 16)

**Notes:** Applies only when two optional Paper Expansion Trays are installed. Sets the priority of the second optional tray in the HP PCL 6 emulation.

## FRONT

4 (Range 1 to 16)

**Notes:** Sets the priority of the Manual Feeder in the in the HP PCL 6 emulation.

## PLACE PG

CENTER  
LEFT

**Notes:** Sets placement of printed image on the page.

## SETTING

0 (Range -1 to +1 in increments of 1)

**Notes:** Adjust to improve print quality:

-2 Rough/thick papers and/or low temperature/humidity

-1

0 Normal media/environmental conditions

+1

+2 Rough papers and/or high temperature/humidity

## CLN CYCL

NORMAL  
MIDDLE  
HIGH

**Notes:** Sets the frequency of the page cleaning sequence:

NORMAL = every 20 pages

MIDDLE = every 10 pages

HIGH = every 3 pages.



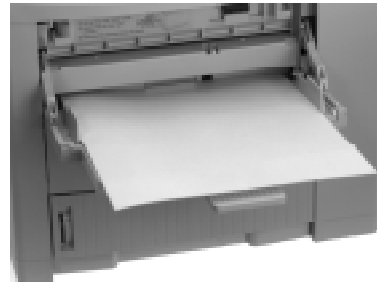
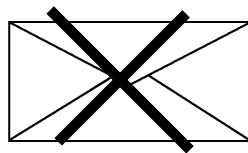
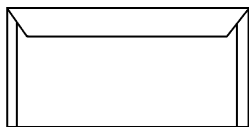
# Chapter 4: The Front Feeder

Use the Front Feeder to print on special media without having to change the paper you have loaded in the tray(s). You can print up to 100 pieces of media or you can use the Front Feeder as a manual feed unit to print individual pieces of media “on-the-fly.”

For media other than standard paper, you must use the rear paper exit. This eliminates curling, and for labels, it eliminates peeling.

You can use the Front Feeder to print on the following media:

- **Standard weight paper** that is different from the paper loaded in the paper tray: e.g., letterhead, different size
  - Up to 100 sheets
  - 16 to 28-lb.
  - Letter, 13" & 14" Legal, Executive, A4, A5, B5, C5 (minimum 3.4" x 2.8"; maximum 8.5" x 14")
  - Use either top or rear paper exit path
- **Envelopes**
  - Up to 10 envelopes
  - 16 to 28-lb.
  - Com 10, Com 9, Monarch, DL, C4, C5
  - Use envelopes that have seams that run down the sides and squared-off flaps: envelopes with v-type flap are *not* recommended.



- Use envelopes with a smooth, even surface that are designed for laser printers: *no metal clasps, snaps, windows, or self-adhesive flaps*
- Use rear paper exit only

- **Labels**

**Important! Carrier sheet and label adhesive must withstand the fusing process heat of 392° F (200°C) for 1 second. Label adhesive must not be exposed; if it is, it will cause jamming in the printer.**

- Up to 100 sheets
- Letter or A4
- Use label sheets designed for laser printers
- *Labels must cover the entire carrier sheet.*
- Use rear paper exit only

- **Transparencies** (up to 100 sheets)

**Important! Transparencies must withstand the fusing process heat of 392° F (200°C) for 1 second without wrinkling or gumming up.**

- Letter or A4
- Use transparencies designed for laser printers
- Use rear paper exit only

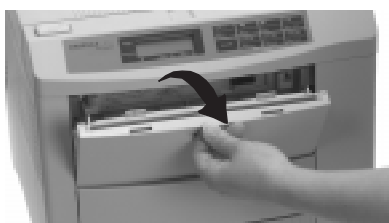
- **Heavy weight paper** such as index or card stock

- Up to 100 sheets
- Up to 36-lb.
- Letter, 13" & 14" Legal, Executive, A4, A5, B5, C5 (minimum 3.4" x 2.8"; maximum 14")
- Use rear paper exit only

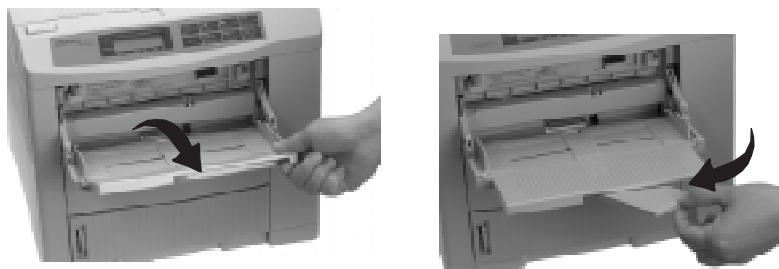
# Using the Front Feeder to Print Multiple Pieces of Media

To set up the printer for multiple-piece print jobs using the Front Feeder:

1. In your software program:
  - a. Enter the printer setup menu.
  - b. Select Front Feeder.
  - c. Select the media type, size and orientation.
2. Lower the printer's Front Feeder.



3. Flip out the tray, then pivot out the extender.

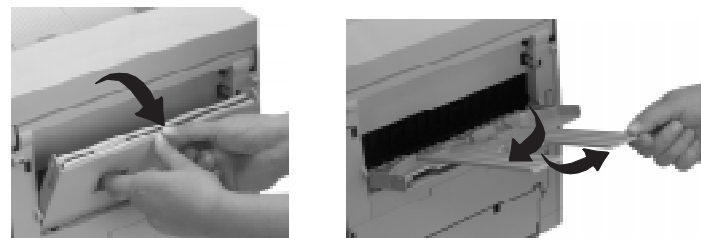


4. Enter the Level-1 menu and make changes:
  - a. Press the ON LINE button (printer goes off line).
  - b. Press MENU 1/Menu 2 until TRAY SELECT displays.
  - c. Press ENTER.
  - d. Make sure that MANUAL FEED is set to OFF (the factory default), then press ENTER.

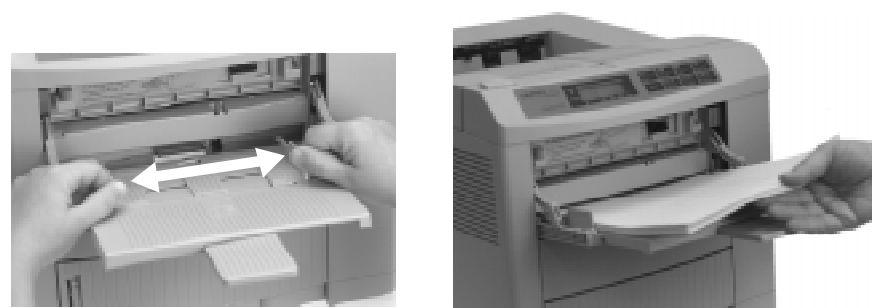
- e. Press MENU 1/Menu 2 (display reads PAPER FEED).
- f. Press ►/Reset until the display reads FRONT TRAY, then press ENTER to engage the setting (an Asterisk will appear next to FRONT TRAY).
- g. Press ON LINE to return the printer to on-line status.

*Note: When you are done printing using the Front Feeder, reenter the Level-1 menu and change the PAPER FEED setting back to its former setting (normally TRAY 1).*

5. Open the rear paper exit path (not required for standard weight paper).



6. Adjust the Front Feeder paper width guides for the media you will be using and load the print media.



*Note: Insert letterhead paper face-up, with the top edge of the paper nosed into the printer.*

7. Send the print job.

*Note: The software application will override the printer menu settings.*

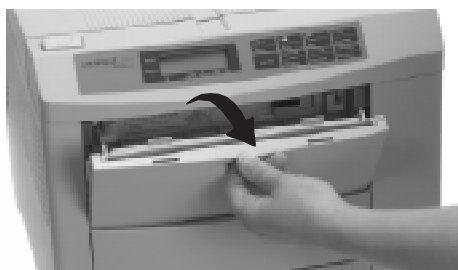
# The Front Feeder: Printing Individual Pieces (Manual Feed)

You can open up the Front Feeder and use it as a manual feeder to print an individual piece of standard paper, an envelope, or specialty print media, without having to change any of the menu settings.

## Manual Feed: Standard Paper

### Setting up Manual Feed for Standard Weight Paper

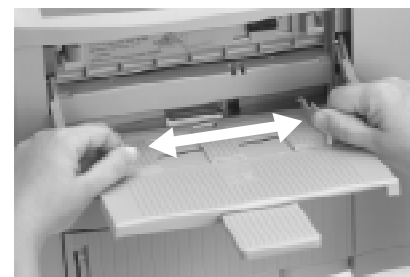
1. In your software program:
  - a. Enter the printer setup menu.
  - b. Select Manual Feed.
  - c. Select the paper size and orientation.
2. Lower the printer's Manual Feeder.



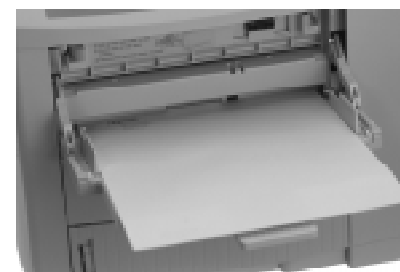
3. Flip out the tray, then pivot out the extender.



4. Adjust the paper width guides.



5. Load a sheet of paper.



**Note:** Insert letterhead paper face-up, top edge of paper in first.

6. Send the print command from your software.
7. When prompted to, press the FORM FEED button on the printer control panel.

*The page prints.*

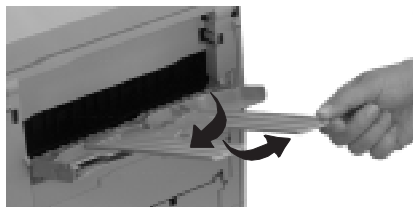
## Manual Feed: Envelopes

### Important!

- Use rear paper exit to avoid curling
- Do *not* use v-flap type envelopes (see page 27)

### Setting up to Print an Envelope

1. In your software program:
  - a. Enter the printer setup menu.
  - b. Select Manual Feed.
  - c. Select the envelope size.
  - d. Select landscape orientation.
2. Lower the rear paper exit tray and pull out the rear exit extender.



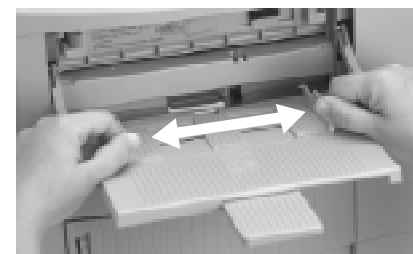
3. Lower the Front Feeder.



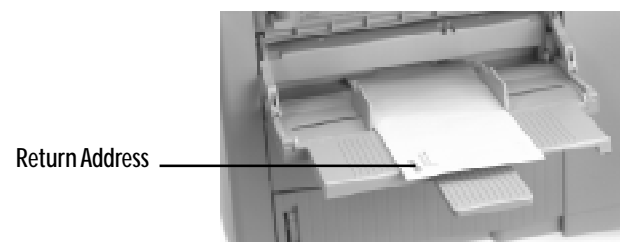
4. Flip out the manual feed tray, then pivot out the extender.



5. Adjust the paper width guides.



6. Insert the envelope with return address on lower left side and flap underneath.



7. Send the print command from your software.
8. When prompted to, press the FORM FEED button on the printer control panel.  
*The printed envelope will exit at the rear.*

## Manual Feed: Labels

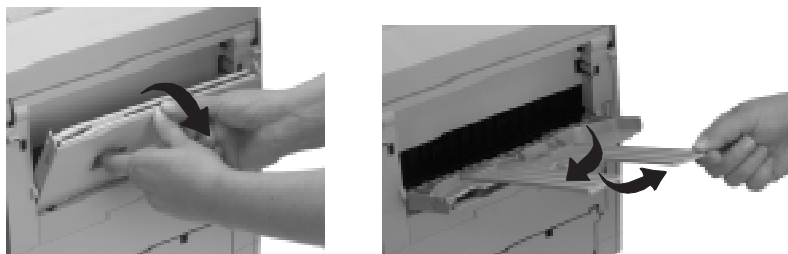
**Important! Sheet and label adhesive must withstand the fusing process heat of 392°F (200°C) for 1 second.**

**Label adhesive must not be exposed; if it is, it will cause jamming in the printer.**

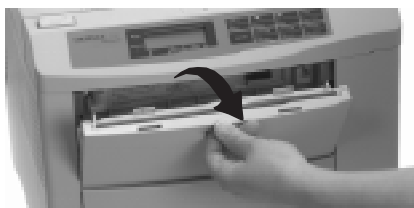
- Labels must cover the entire carrier sheet.
- Use rear paper exit to avoid peeling.

### Setting up to Print Labels

1. In your software program:
  - a. Enter the printer setup menu.
  - b. Select Manual Feed.
  - c. Select the label sheet size.
2. Lower the rear paper exit tray and pull out the rear exit extender.



3. Lower the Front Feeder.



4. Flip out the tray, then pivot out the extender.



5. Adjust the paper width guides.



6. Insert the label sheet face up.



7. Send the print command from your software.
8. When prompted to, press the FORM FEED button on the printer control panel.

*The printed label sheet will exit at the rear.*

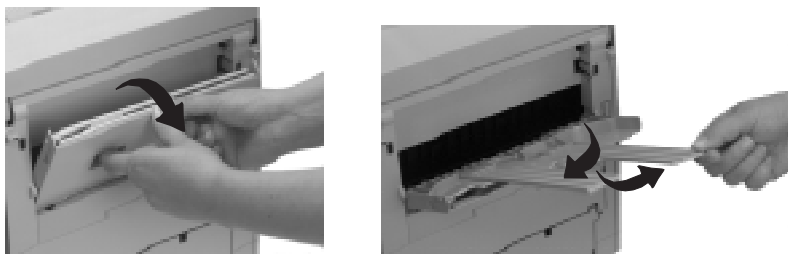
## Manual Feed: Transparencies

**Important! Transparency must withstand the fusing process heat of 392°F (200°C) for 1 second without wrinkling or gumming up.**

- Use transparencies designed for laser printers.
- Use rear paper exit to avoid curling.

### Setting up to Print a Transparency

1. In your software program:
  - a. Enter the printer setup menu.
  - b. Select Manual Feed.
  - c. Select the transparency size.
2. Lower the rear paper exit tray and pull out the rear exit extender.



3. Lower the Front Feeder.



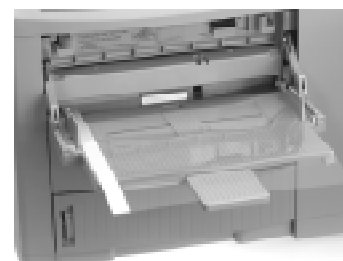
4. Flip out the tray, then pivot out the extender.



5. Adjust the paper width guides.



6. Insert the transparency with the side to be printed facing up.



7. Send the print command from your software.
8. When prompted to, press the FORM FEED button on the printer control panel.  
*The printed transparency will exit at the rear.*



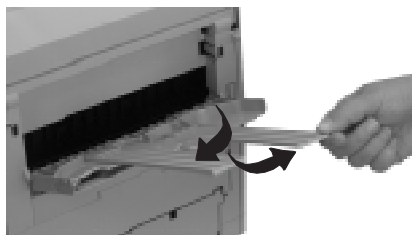
## Manual Feed: Heavy (Card) Stock

### Heavy (Card) Stock Specifications

- Weight range : 28 - 36 lb.
- Use rear paper exit to avoid curling

### Setting up to Print Heavy Stock

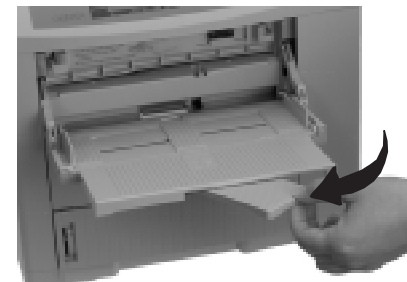
1. In your software program:
  - a. Enter the printer setup menu.
  - b. Select Manual Feed.
  - c. Select the media size.
2. Lower the rear paper exit tray and pull out the rear exit extender.



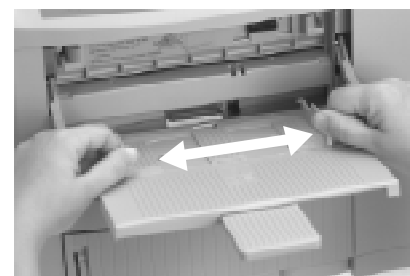
3. Lower the Front Feeder.



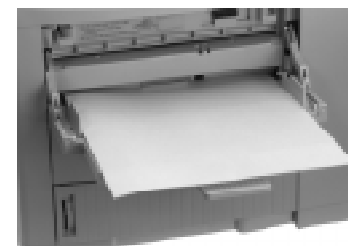
4. Flip out the tray, then pivot out the extender.



5. Adjust the paper width guides.



6. Insert the sheet of heavy stock.



7. Send the print command from your software.
8. When prompted to, press the FORM FEED button on the printer control panel.

*The printed sheet will exit at the rear.*

# Using the Automatic Tray Switch Feature

To increase the paper feed capacity, you can set the printer to automatically feed paper from the front feeder when the paper tray empties (or from any of the optional accessories).

To do this:

1. Press ON LINE.  
*The printer goes off-line.*
2. Press MENU 1/Menu 2 to enter the Menu Mode.
3. Press MENU 1/Menu 2 again to move to the TRAY SELECT category.
4. Press ENTER.
5. Press MENU 1/Menu 2 twice to move to the AUTO TRAY SWITCH item.
6. Press ►/Reset once to get to the ON selection.
7. Press ENTER to engage the ON selection.  
*An asterisk appears next to ON.*
8. Press ON LINE to exit the Menu Mode.

**Important: Paper tray size settings in your application software and in the OKIPAGE 20 Software Operator Panel will override the printer's front operator panel settings.**

If all paper sources have the same paper size selected, the printer will normally feed paper in the following sequence:

- (1) the first tray
- (2) the paper expansion tray (if installed)
- (3) the second paper expansion tray (if installed)
- (4) the front feeder
- (5) the multipurpose feeder (if installed).

If any paper tray has a different size paper selected, it will be skipped.

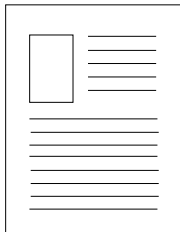
If you wish to change the sequence, use the Maintenance Menu (see “The User Maintenance Menu” in Chapter 3).

# Chapter 5: Duplex Printing

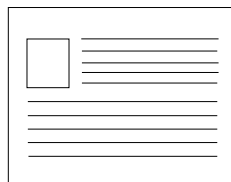
*Note: This chapter applies only to the Model 20DX, or Model 20 with the optional Duplex Feeder installed.*

## Portrait Versus Landscape

**Portrait:**



**Landscape:**



## Duplex Printing: Windows NT 3.51

The duplex print options are in the **Document Properties** dialog box.

### Example:

In Windows® NT 3.5, to select duplex printing in Microsoft® Word:

1. Select **Print** from the **File** menu.
2. Click **Printer**.
3. Click **Options**.
4. Select the duplex print method:  
**Long Side** (portrait printing)  
**Short Side** (landscape printing)
5. Click **OK**.
6. Click **Close** and send the print job.

## Duplex Printing: Windows® 3.1x

The duplex print options are in the **Document Properties** dialog box.

### Example:

In Windows 3.1x, to select duplex printing in Microsoft Word:

1. Select **Print** from the **File** menu.
2. Click **Printer**.
3. Click **Options**.
4. Select the **Paper Input** tab.
6. Click **Duplex**.
7. Select the duplex print method:  
**Join top to bottom** (landscape printing)  
**Join left to right** (portrait printing)
8. Click **OK**.
9. Click **OK**.
10. Click **Close** and send the print job.

## Duplex Printing: Windows 95

The duplex print options are in the **Document Properties** dialog box.

### Example:

In Windows 95, to select duplex printing in Microsoft Word:

1. Select **Print** from the **File** menu.
2. Click **Properties**.
3. Select the **Paper** tab.
4. Click **Duplex**.
5. Select the duplex print method:  
**Join top to bottom** (landscape printing)  
**Join left to right** (portrait printing)
6. Click **OK**.
7. Click **OK** and send the print job.

### Setting Duplex Printing as the Default in Windows 95

1. Click **Start, Settings, Printers**.
2. Click the *right* mouse button on the driver icon.
3. Click **Properties**.
4. Click **Duplex**.
5. Select the duplex method you wish to use as the default.
6. Click **OK**.
7. Click **OK**.

## Duplex Printing: Windows NT 4.0

The duplex print options are in the **Document Properties** dialog box.

### Example:

In Windows NT 4.0, to select duplex printing in Microsoft Word:

1. Select **Print** from the **File** menu.
2. Click **Properties**.
3. Select the **Advanced** tab.
4. Click **Paper/Output** in the box.
5. Click **Print on Both Sides (Duplex Printing)**.
6. Select the duplex print method:  
**Short Side** (landscape printing)  
**Long Side** (portrait printing)
7. Click **OK**.
8. Click **OK** and send the print job.

### Setting Duplex Printing as the Default in Windows NT 4.0

1. Click **Start, Settings, Printers**.
2. Click the *right* mouse button on the driver icon.
3. Click **Document Defaults**.
4. Select the duplex method you wish to use as the default.
5. Click **OK**.
6. Click **OK**.